**IT Applications Unit 3  
Tammy**

**Networked Information Systems**

**Physical Security**

1. What physical security measures can be employed?  
   Locks and alarms to warn of intruders.

**Usernames and Passwords**

1. List the characteristics of a good password  
   -At least 8 digits long  
   - Include non alphabetical characters  
   -Not be easily guessed  
   -Changed every month

**Firewall**

1. Describe the role of a firewall?  
   A firewall is a server and software combination that filters the information coming through an Internet connection into an organisations internal network.
2. How do most firewalls operate?

**Malware Protection**

1. What does Malware refer to?  
   Malware refers to malicious software and includes spyware, adware, Trojan horses, worms and viruses.
2. What strategies do network administrators use to prevent attacks to the network?  
   Have workstations to run virus protection software. The software is automatically updated via the network

**Encryption**

1. What is encryption?  
   Encryption is the process of translating data into a secret code that can only be read by authorised users.
2. Describe the two types of encryption  
   Symmetric-key encryption: sender and the receiver have the same shared key installed on their computers  
   Asymmetric – key encryption: uses two keys, a public key and a private key
3. Explain the nature of Wired Equivalent Privacy (WEP)  
   WEP is a security protocol for use by wireless local area networks.

**Biometrics**

1. Definition of biometrics as a means of preventing unauthorised access  
   It is the use of physical human characteristics, like fingerprints or facial features or behavioural characteristics, such as voice patterns or handwriting, to grant access to data.